Report Summary

Name of sender of the report: Dr Taina Aaltonen
Telephone: +358 295 162439
Fax: cvo-finland@mmm.fi
Address: Mariankatu 23
PO Box 30
FL-00023 Helsinki Helsinki
Date submitted to OIE: 21/12/2016

Animal type: Terrestrial
Report Date: 21/12/2016
Disease: Highly pathogenic avian influenza
Date of start of the event: 12/11/2016
Causal Agent: Highly pathogenic avian influenza virus
Date of confirmation of the event: 25/11/2016
Serotype(s): H5N8
Reason: First occurrence of a listed disease in the country
Clinical signs: Yes
Country or zone: a zone or compartment
Number of reported outbreaks: submitted= 7, Draft= 0

Outbreak details

Province: AHVENANMAAN MAAKUNTA
Number of outbreaks: -
District: other
Sub-district: report - submitted
Location: Not applicable
Latitude: 60.1349684
Longitude: 20.222075
Start Date: 12/11/2016
End Date: 25/11/2016

Species: Tufted Duck:Anatidae(Aythya fuligula)
Measuring units: Animals
Susceptible: 60
Cases: 2
Deaths: 2
Destroyed: 0
Slaughtered: 0

Affected Population: Approximately 60 tufted ducks were found dead in different places of the Aland archipelago on 12 November 2016. Four birds were submitted to Evira. So far, two birds have been found positive for highly pathogenic avian influenza H5N8.

Province: LOUNAIS-SUOMI
Number of outbreaks: -
District: other
Sub-district: report - submitted
Location: Not applicable
Latitude: 60.174001165
Longitude: 21.731958149
Start Date: 20/11/2016
End Date: 02/12/2016

Species: Tufted Duck:Anatidae(Aythya fuligula)
Measuring units: Animals
Susceptible: 3
Cases: 3
Deaths: 0
Destroyed: 0
Slaughtered: 0

Province: AHVENANMAAN MAAKUNTA
Number of outbreaks: -
District: other
Sub-district: report - submitted
Location: Not applicable
Latitude: 60.252373711
Longitude: 19.631435763
Start Date: 20/11/2016
End Date: 09/12/2016

Species: White-tailed Eagle:Accipitridae(Haliaeetus albicilla)
Measuring units: Animals
Susceptible: 1
Cases: 1
Deaths: 0
Destroyed: 0
Slaughtered: 0

Province: AHVENANMAAN MAAKUNTA
Number of outbreaks: -
District: Zoo
Sub-district: Mariehamn
Location: Not applicable
Latitude: 60.095921
Longitude: 19.950646
Start Date: 26/11/2016
End Date: 09/12/2016

Species: White-tailed Eagle:Accipitridae(Haliaeetus albicilla)
Measuring units: Animals
Susceptible: 1
Cases: 1
Deaths: 0
Destroyed: 0
Slaughtered: 0
<table>
<thead>
<tr>
<th>Province</th>
<th>Number of outbreaks</th>
<th>District</th>
<th>Sub-district</th>
<th>Unit Type</th>
<th>Location</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHVENANMAAN MAAKUNTA- (this report - submitted)</td>
<td>-</td>
<td>Not applicable</td>
<td>Sund</td>
<td>60.202124011</td>
<td>20.049795572</td>
<td>28/11/2016</td>
<td>09/12/2016</td>
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<td>LOUNAIS-SUOMI- (this report - submitted)</td>
<td>-</td>
<td>Not applicable</td>
<td>Rauma</td>
<td>61.136131339</td>
<td>21.666881651</td>
<td>12/12/2016</td>
<td>17/12/2016</td>
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<td>AHVENANMAAN MAAKUNTA- (this report - submitted)</td>
<td>-</td>
<td>Not applicable</td>
<td>Sund</td>
<td>60.197</td>
<td>20.217</td>
<td>14/12/2016</td>
<td>20/12/2016</td>
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</tbody>
</table>

**Affected Population**

The outbreak is in a bird zoo in a group of galliform birds, all of which have died or been destroyed. Psittacine and passerine birds are kept in a separate building (separate epidemiological unit) under movement restrictions and are being monitored continuously.

<table>
<thead>
<tr>
<th>Species</th>
<th>Measuring units</th>
<th>Susceptible</th>
<th>Cases</th>
<th>Deaths</th>
<th>Destroyed</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birds</td>
<td>Animals</td>
<td>150</td>
<td>9</td>
<td>9</td>
<td>28</td>
<td>0</td>
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<tr>
<td>White-tailed Eagle</td>
<td>Accipitridae(Haliaetus albicilla)</td>
<td>Animals</td>
<td>...</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
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<td>Animals</td>
<td>...</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Eurasian Eagle-Owl</td>
<td>Strigidae(Bubo bubo)</td>
<td>Animals</td>
<td>...</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**Affected Population**

- **Outbreak summary: Total outbreaks = 7 (Submitted)**
  - Tufted Duck: 5 susceptible, 5 cases, 0 deaths, 0 destroyed, 0 slaughtered
  - White-tailed Eagle: 3 susceptible, 3 cases, 0 deaths, 0 destroyed, 0 slaughtered
  - Birds: 150 susceptible, 9 cases, 9 deaths, 28 destroyed, 0 slaughtered
  - Eurasian Eagle-Owl: 1 susceptible, 1 case, 0 deaths, 0 destroyed, 0 slaughtered

**Epidemiology**

- **Epidemiological comments**
  - Source of the outbreak(s) or origin of infection
    - Unknown or inconclusive
  - Measures applied
    - Applied
      - movement control inside the country
      - screening
      - surveillance within containment and/or protection zone
    - To be applied
      - no planned control measures

Follow-up report No.: 4, Report reference: , OIE Ref: 22016, Report Date: 21/12/2016, Country: Finland
### Diagnostic test results

<table>
<thead>
<tr>
<th>Laboratory Type</th>
<th>Name of Laboratory</th>
<th>Species</th>
<th>Test Type</th>
<th>Date results provided</th>
<th>Result</th>
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<tbody>
<tr>
<td>National laboratory</td>
<td>Finnish Food Safety Authority Evira</td>
<td>Eurasian Eagle-Owl</td>
<td>virus sequencing</td>
<td>20/12/2016</td>
<td>Positive</td>
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<td>National laboratory</td>
<td>Finnish Food Safety Authority Evira</td>
<td>Eurasian Eagle-Owl</td>
<td>real-time reverse transcriptase/polymerase chain reaction (RRT-PCR)</td>
<td>16/12/2016</td>
<td>Positive</td>
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<td>Finnish Food Safety Authority Evira</td>
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<td>Positive</td>
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<td>reverse transcription - polymerase chain reaction (RT-PCR)</td>
<td>16/12/2016</td>
<td>Positive</td>
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</tbody>
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### Future Reporting

The event is continuing. Weekly follow-up reports will be submitted.
Outbreak maps